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DATE: March 1, 2012

TO: Kelley Chase, EPA Region 3 OSC

Cynthia Caporale, EPA Region 3 OASQA

THROUGH:

Ex. 4 - CBI

FROM:

SUBJECT:

VERIFICATION/COMPLETENESS CHECK – DIMOCK, PA LABORATORY DATA

File 1202001 FINAL PART 1 of 3 R33907 02 26 12 1400.pdf

INTRODUCTION

On February 29 – March 1, 2012, a review of the case narratives and corresponding certificates of analysis from the EPA R3 (Metals Report Posted Feb 26) was conducted at the SERAS facility in accordance with the Follow-Up Verification/Completeness Check agreed upon during our teleconference on Wednesday 2/8/12.

The assumptions for this review include the following: 1) Case narratives from the Regional labs and/or subcontract labs have been reviewed in accordance with Regional or Environmental Services Assessment Team (ESAT) protocols and contain all pertinent and complete information to conduct the completeness check. SERAS will base this review on the information provided by the laboratory and not on an actual data package; and 2) SERAS will relay any "red" flags to the EPA R3 personnel to resolve and determine data usability.

OBSERVATIONS

In accordance with Table 1 – Field and QC Sampling Summary (Rev01 - 2/3/12), Table 2 – Sample Analytical Requirements Summary (Rev01 – 2/3/12), Methods for Groundwater and Surface Water Samples and the R3 SOPs R3QA159-021511 for ICP and R3QA-116-021511 for ICP-MS, the following observations were noted and need to be clarified/resolved.

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- 1. The qualification of the sample data appeared to have been done using the data from all of the field blanks instead of qualifying the sample data based on the field blank collected on the same day as the samples. Qualification of the data for the samples collected on 2/2/12 with FB09 and samples collected on 2/3/12 with FB10 need to be re-evaluated as follows: FB09 contained zinc at 2.4 μg/L and lead at 1.3 μg/L. Copper results for the following samples associated with FB09 should not be qualified "B": HW42, HW42-F, HW46, HW46-F, HW46-P, HW42z, Hw42z-F, HW46-PF HW40, HW40-F, HW40-P and HW40-PF. Likewise, FB10 did not have any hits yet the following samples are qualified "B": lead and copper for samples HW28a and HW28a-F; copper for HW39 and HW28a-PF; zinc and copper for HW39-PF, HW09-PF, HW09-F and HW09-P; lead and zinc for HW28b-PF and HW28b-P; and lead, zinc and copper for HW09.
- 2. There were several metals that exceeded the MCL: Manganese for HW34a, HW34a-F, HW34-P and HW34a-PF; Barium for HW39-P and HW39-PF.

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- 4. There were several non-typical metals that were detected in some of the drinking water samples for which no MCLs are available: Boron for HW34a, HW34a-F, HW34-P, HW34a-PF, HW39, HW39-P, HW39-PF and HW39-F strontium for HW34a, HW34a-F, HW34-P, HW34a-PF, HW39, HW39-P, HW39-PF, HW40, HW40-F, HW40-PF, HW41, HW41-F, HW41-P, HW41-PF, HW39-F and HW39-RO; uranium for HW40, HW40-F, HW40-P, HW40-PF, HW41, HW41-F, HW41-P and HW41-PF.
- 5. It is assumed that all required instrument QC in the method was run and was within the criteria listed in the EPA R3 SOPs since this information is not available in the laboratory report.

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